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UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
Washington, D.C. 20230

MAR 13 2001

Mr. Bruce Franca
Acting Chief
Office of Engineering and Technology
Federal Communications Commission
Washington, DC 20554

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MAR 22 2001

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Re: CEC Operation in Spectrum Adjacent to 4940-4990 MHz

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List A B C D E

Dear Mr. Franca:

As noted in your letter of January 30, NTIA has had on-going discussions with Commission and Navy staff regarding the operating parameters and spectrum utilization of the DOD Cooperative Engagement Capability (CEC) in the spectrum adjacent to 4940-4990 MHz. As a result of the meetings with Navy personnel, NTIA confirms the following:

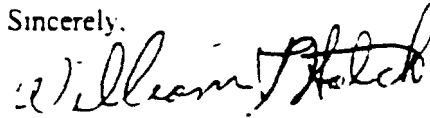
Training will be conducted with the CEC system within the geographic areas identified in Enclosure 1. This list further clarifies the list previously provided by NTIA and included in the 4.9 GHz Notice of Proposed Rulemaking issued by the Commission. The attached list includes three additional ground-only training sites, at Dahlgren, VA, Reedville, VA, and Huntsville AL, that were not within the previously identified CEC training areas; these three locations, however, are included within the CEC Impacted Economic Areas identified by the Commission and included as Appendix E of the 4.9 GHz NPRM. Within all of these training areas, the high power mode and full band capability (with the upper limit of the CEC authorized bandwidth limited to 4940 MHz) will be used for testing and training with emission levels as indicated in Enclosure 2.

Operational use of the CEC system will occur outside of these training areas and such use will continue to evolve as national defense requirements for the CEC system are further defined. In areas outside of the identified training areas previously identified where commercial users have secured radio station licenses, the Department of Defense has agreed that any operational use of the CEC system will be limited to the medium power mode and observance of 50 MHz guardband below 4940 MHz. Consequently, CEC emission levels within the 4940-4990 MHz band will consist of, at most, baseline spurious emissions as shown in Enclosure 2. Please note that the power levels in a 4 kHz band indicated on this figure are e.i.r.p levels, i.e., includes the mainbeam antenna gain of the CEC system. These levels are well below both NTIA and FCC spurious emission requirements for mobile, including aeronautical mobile, services. We recognize that neither these spurious levels, nor any of the spurious limits established by NTIA or the FCC for licensed services, can guarantee that interference will not occur. Nevertheless, we believe that spurious interference cases that may occur, if any, will be very few in number and can be resolved on a case-by-case basis through the normal NTIA/FCC coordination processes. Further, we believe that these spurious emission levels from possible operational use outside the training areas will not negatively impact the commercial viability of the 4940-4990 MHz band.

In areas outside of the training areas previously identified where commercial users have not secured radio station licenses, the Department of Defense reserves the right, in coordination with NTIA and the FCC, to permanently expand the training areas and utilize the high power mode and full band capability.

Any exceptions to paragraph 2 as a consequence of a national emergency will be conducted in accordance with Section 7.3.1 of the NTIA Manual and will be notified to the Commission as early as is practical. The number of such exceptions, if any, are expected to be very limited.

Sincerely,

A handwritten signature in black ink, appearing to read "William T. Hatch". The signature is fluid and cursive, with the first name "William" being more legible than the last name "Hatch".

William T. Hatch
Associate Administrator
Office of Spectrum Management

Enclosures

cc: Mr. Victor Sparrow
Mr. Bruce Swearingen
Mr. Roger Davis

Revised CEC Op Areas List

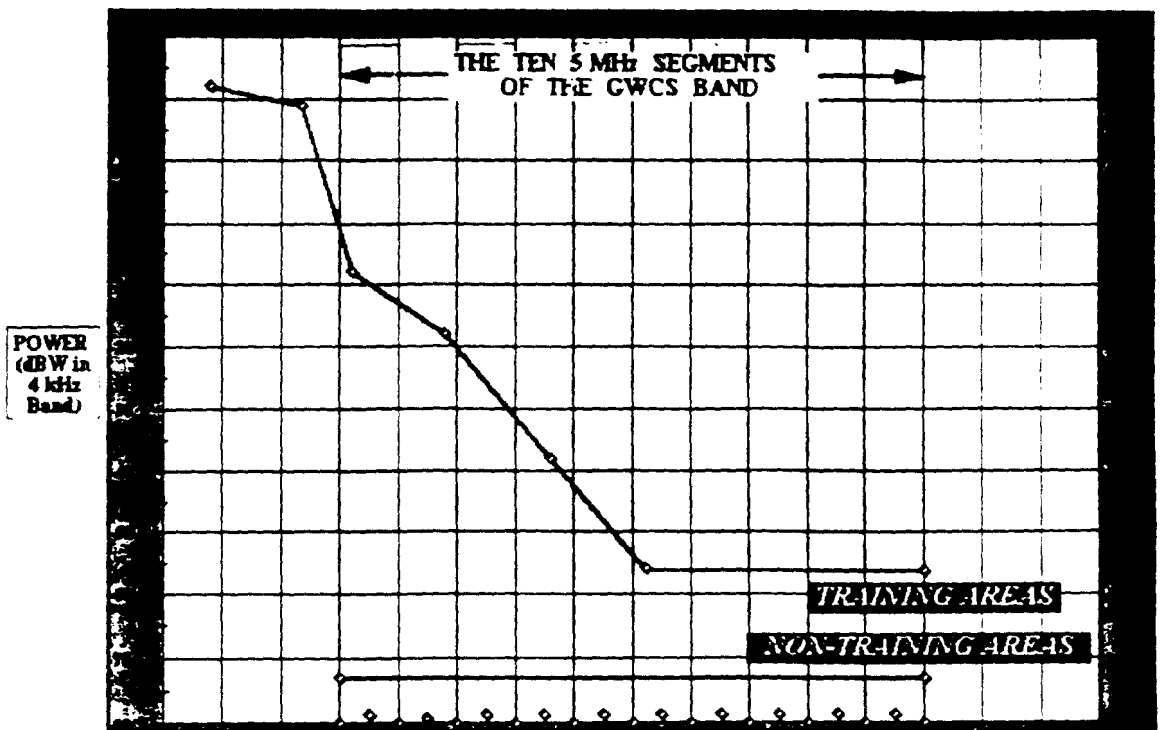
The following items identify the areas where CEC will operate with full power and full bandwidth.

- (1) The area extending 30 nautical miles (nm) inland from the Atlantic Ocean between Wilmington, North Carolina (NC) and Lewes, Delaware (DE) to facilitate Atlantic Fleet exercises. The area includes: Camp Pendleton Marine Corps Base, Virginia (VA); Cherry Point and Bogue Field Marine Corps Air Stations, NC; and Onslow Bay, NC. The Atlantic Fleet exercises will include aircraft flying at altitudes to 30 kft and mobile ground based equipment that can be positioned anywhere within the identified area. Permanent ground based terminals within the boundaries are located at Wallops Island, Eastville, and Dam Neck, VA. Permanent ground based terminals not within the boundaries are located at the Naval Air Warfare Center at Patuxent River, Maryland (MD); Naval Surface Warfare Center at Dahlgren, VA; Reedville, VA; Greenville, South Carolina (SC); Jacksonville, Florida (FL); and St. Petersburg, FL. CEC Radio Frequency (RF) emissions will occur at these six sites.
- (2) The area extending 30 nm inland from the Gulf of Mexico between the Louisiana (LA)-Mississippi (MS) state border and Panama City, FL, to support Gulf of Mexico exercises. The area includes Gulfport and Biloxi, MS; and Pensacola, Eglin Air Force Base (AFB), and Tyndall AFB, FL. The Gulf exercises will include aircraft flying at altitudes to 30 kft and mobile ground based equipment that can be positioned anywhere within the identified area. Redstone Arsenal at Huntsville, Alabama (AL) is not included in the inland area. However, CEC RF emissions will occur from ground based terminals located at this site.
- (3) The area extending 30 nm inland from the Pacific Ocean between Vandenberg Air Force Base, California (CA) and Point Mugu Naval Air Station, CA, to support Pacific Fleet exercises. The Pacific Fleet exercises will include aircraft flying at altitudes to 30 kft and mobile ground based equipment that can be positioned anywhere within the identified area. Permanent ground based terminals within the area are located at the Naval Surface Warfare Center at Port Hueneme, CA.
- (4) The area extending 30 nm inland from the Pacific Ocean between Newport Beach, CA, and the CA-Mexico international border to support Pacific Fleet exercises. The Pacific Fleet exercises will include aircraft flying at altitudes to 30 kft and mobile ground based equipment that can be positioned anywhere within the identified area. Permanent ground based terminals within the area are located at Camp Pendleton Marine Corps Base, CA, and at the Naval facilities located on the Point Loma, CA peninsula.
- (5) All of Hawaii, including the Pacific Missile Range Facility. Exercises will include aircraft flying at altitudes to 30 kft and mobile ground based equipment that can be positioned anywhere within the identified area.
- (6) All of Puerto Rico, including the Armed Forces Weapons Test Facility, and a permanent ground based terminal located on St. Thomas in the Virgin Islands. Exercises will include aircraft flying at altitudes to 30 kft and mobile ground based equipment that can be positioned anywhere within the identified area.
- (7) The area extending 30 nm inland and 30 nm south of the Georgia-South Carolina state line. Ft Stewart, Wright Army Field, and Hunter Army Air Field, Georgia (GA), are included. Exercises will include aircraft flying at altitudes to 30 kft and mobile ground based equipment that can be positioned anywhere within the identified area.
- (8) Aircraft flying at altitudes to 30 kft above the territorial waters of the US that are bounded by the coastal land areas identified in items (1) through (7) above.
- (9) Ships positioned in the territorial waters of the US that are bounded by the coastal land areas identified in items (1) through (7) above.
- (10) The area that includes the White Sands Missile Range, New Mexico (NM) and the Fort Bliss Military Reservation, Texas (TX) and NM, to support the Joint Chiefs of Staff Roving Sands Exercise. The exercises will include aircraft flying at altitudes to 30 kft and mobile ground based

- equipment that can be positioned anywhere within the identified area.
- (11). The area that includes the China Lake Naval Weapons Center and the Fort Irwin Military Reservation, CA. The exercises will include aircraft flying at altitudes to 30 kft and mobile ground based equipment that can be positioned anywhere within the identified area.

Encl 1

POWER SPECTRUM DENSITY (dBW/Hz) vs. FREQUENCY (MHz)



Encl 2